# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

***Name of the work:*** **Estimate for Improvements to Roads, Drains and Culverts at Maruthinagara Badrappa Layout and Surrounding area at Kodigehalli Ward No. 08.**

| | 008-19-000041 | | P-3522 | | | Est Cost: | | 6000000.00 | |
|---|---|---|---|---|---|---|---|---|---|
| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19** | Cum | | | | | | | |
| | RCC Drains 6th Main Maruthinagara | | 2 | 164.00 | 1.00 | 1.00 | 328.00 | | |
| | Cross Road | | 2 | 24.00 | 1.00 | 1.00 | 48.00 | | |
| | Basic Rate | 130.00 | | | | | **376.00** | 243.88 | **91699.00** |
| | Area Weightage @ 6% | 7.80 | | | | | | | |
| | **Total** | **137.80** | | | | | | | |
| | Add loading and unloading Charges **It No 17.1 KSRRB M 100-1** | 68.00 | | | | | | | |
| | Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08 | 38.08 | | | | | | | |
| | | **243.88** | | | | | | | |
| 2 | KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(Page No. 13 / Item No. 4.2 PWD SR 2018-19** | Cum | | | | | | | |
| | RCC Drains 6th Main Maruthinagara | | 2 | 164.00 | 1.00 | 0.15 | 49.20 | | |
| | Cross Road | | 2 | 24.00 | 1.00 | 0.15 | 7.20 | | |
| | | | | | | | **56.40** | 5505.64 | **310518.00** |
| | Basic Rate | 5194.00 | | | | | | | |
| | Area Weightage @ 6% | 311.64 | | | | | | | |
| | Total | **5505.64** | | | | | | | |
| 3 | KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.6 PWD SR 2018-19** | Cum | | | | | | | |
| | RCC Drains 6th Main Maruthinagara | | 2 | 164.00 | 0.30 | 0.10 | 9.84 | | |
| | Cross Road | | 2 | 24.00 | 0.30 | 0.10 | 1.44 | | |
| | Basic Rate | 5422.00 | | | | | **11.28** | 5747.32 | **64830.00** |
| | Area Weightage @ 6% | 325.32 | | | | | | | |
| | Total | **5747.32** | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 4 | Providing laying palin / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including cenmtering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm **Page No. 271, Item No. 37.59.2, PWD SR 2018-19** | Cum | | | | | | | |
| | Drain Bottom Concrete | | | | | | | | |
| | RCC Drains 6th Main Maruthinagara | | 2 | 164.00 | 0.90 | 0.15 | 44.28 | | |
| | Cross Road | | 2 | 24.00 | 0.90 | 0.15 | 6.48 | | |
| | Side Wall | | | | | | | | |
| | RCC Drains 6th Main Maruthinagara | | 4 | 164.00 | 0.15 | 0.60 | 59.04 | | |
| | Cross Road | | 4 | 24.00 | 0.15 | 0.60 | 8.64 | | |
| | Basic Rate | 6670.00 | | | | | **118.44** | 7070.20 | **837394.00** |
| | Area Weightage @ 6% | 400.20 | | | | | | | |
| | Total | **7070.20** | | | | | | | |
| 5 | KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19** | Tonne | | | | | | | |
| | For Roof, Columns @ 60 Kg / Cum | | 0.06 | 118.44 | | | **7.11** | 75223.96 | **534572.00** |
| | Basic Rate | 70966.00 | | | | | | | |
| | Area Weightage @ 6% | 4257.96 | | | | | | | |
| | Total | **75223.96** | | | | | | | |
| | | | | | | | | | |
| 6 | Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 27 / Item No. 5.30 PWD SR 2018-19** | No | | | | | | | |
| | | | 2 | 164.00 | | | 729 | | |
| | | | | 0.45 | | | | | |
| | | | 2 | 24.00 | | | 107 | | |
| | | | | 0.45 | | | | | |
| | Basic Rate | 408.00 | | | | | **836** | 432.48 | **361361.00** |
| | Area Weightage @ 6% | 24.48 | | | | | | | |
| | **Total** | **432.48** | | | | | | | |
| 7 | KSRB 15-19.1 : Providing and applying ready mix priming coat **over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 124 / Item No. Item No. 15.80, PWD SR 2018-19** | Sqm | | | | | | | |
| | RCC Drains 6th Main Maruthinagara | | 2 | 165.00 | | 0.45 | 148.50 | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Cross Road | | 2 | 24.00 | | 0.45 | 21.60 | | |
| | Basic Rate | 37.00 | | | | | **170.10** | 39.22 | **6671.00** |
| | Area Weightage @ 6% | 2.22 | | | | | | | |
| | **Total** | **39.22** | | | | | | | |
| 8 | KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat ) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 124 / Item No. Item No. 15.81, PWD SR 2018-19** | Sqm | | | | | | | |
| | Culvert | | Qty Vide Item No. 7 | | | | **170.10** | 90.10 | **15326.00** |
| | Basic Rate | 85.00 | | | | | | | |
| | Area Weightage @ 6% | 5.10 | | | | | | | |
| | **Total** | **90.10** | | | | | | | |
| | | | | | | | | | |
| 9 | Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19** | Sqm | | | | | | | |
| | BS Slab Drain | | | | | | | | |
| | Singapura | | 2 | 280.00 | | 1.35 | 756.00 | | |
| | | | 2 | 220.00 | | 1.35 | 594.00 | | |
| | | | | | | | **1350.00** | 111.30 | **150255.00** |
| | Basic Rate | 105.00 | | | | | | | |
| | Area Weightage @ 6% | 6.30 | | | | | | | |
| | Total | **111.30** | | | | | | | |
| 10 | Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19** | Sqm | | | | | | | |
| | Damaged Slabs & Missing Slabs 10% | | | Vide Item No. 9 | | | 135.00 | | |
| | Basic Rate | 700.00 | | | | | **135.00** | 742.00 | **100170.00** |
| | Area Weightage @ 6% | 42.00 | | | | | | | |
| | **Total** | **742.00** | | | | | | | |
| | | | | | | | | | |
| 11 | KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19** | Sqm | | | | | | | |
| | Singapura | | 2x2 | 280.00 | | 0.40 | 448.00 | | |
| | | | 2x2 | 220.00 | | 0.40 | 352.00 | | |
| | Basic Rate | 924.00 | | | | | **800.00** | 979.44 | **783552.00** |
| | Area Weightage @ 6% | 55.44 | | | | | | | |
| | **Total** | **979.44** | | | | | | | |
| | | | | | | | | | |
| 12 | Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - Data rate | Sqm | | | | | | | |
| | Covering Slab | | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | RCC Drains 6th Main Maruthinagara | | 2 | 280.00 | 0.90 | | 504.00 | | |
| | Cross Road | | 2 | 219.00 | 0.90 | | 394.20 | | |
| | | | | | | | **898.20** | 2337.00 | **2099093.00** |
| | | | | | | | | | |
| | Sub Total | | | | | | | | **5355441.00** |
| | GST @ 12% | | | | | | | | **642653.00** |
| | Miscellaneous and unforeseen charges | LS | | | | | | | **1906.00** |
| | | | | | | | | **Total** | **6000000.00** |
| | **Rupees Sixty Lakh(s) Only** | | | | | | | | |

**CERTIFICATE:**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2018-19.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

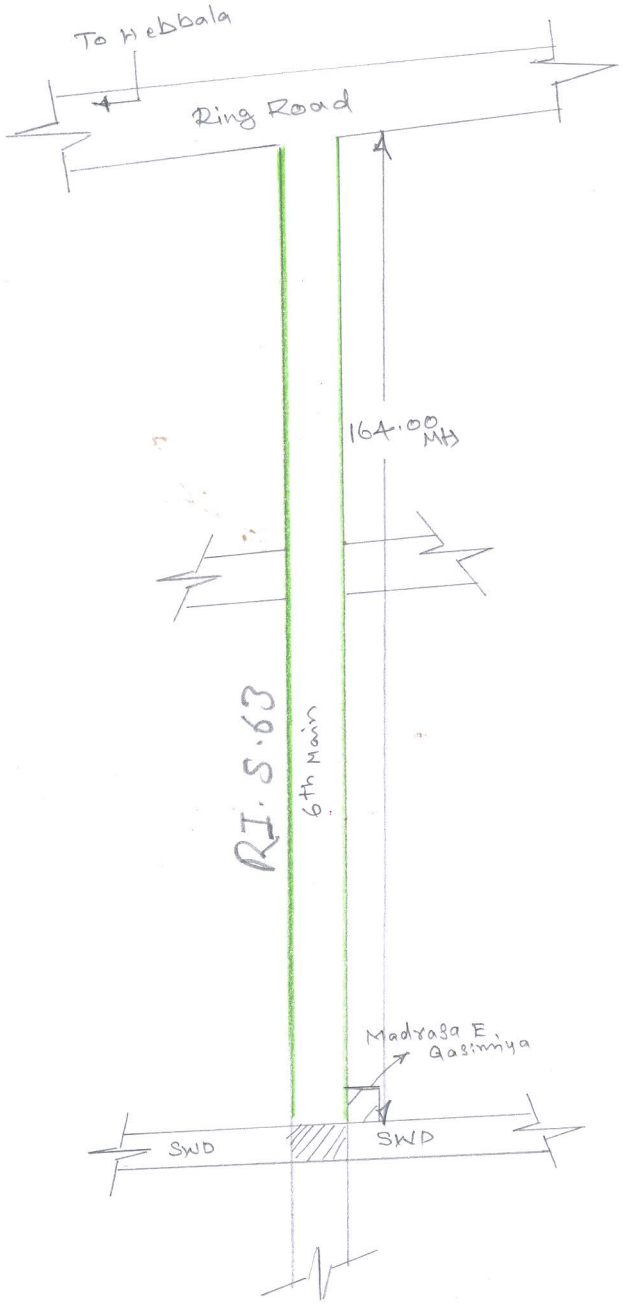
Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 60.00 Lakhs only
Head of A/c. P3522
Div. Ref. No. 81 Date 30-10-19
AE EE(BTP)

Technical Sanction
Accorded For Rs 60.00 Lakhs only
Head of A/C P3522
CER NO 245 Dt 08.11.2019
TA SE (YNK)




W0450
Cross Road
24.04 Mtrs

PROPOSED RCC DRAIN.